Page 1

April-12-12 4:11:19 PM Item ID: D212-664-101 Accept *N900040100* **Revision ID:** Crosstube Fwd Item Name: Start Date: 12/04/2012 **Start Qty: 1.00**: Cust Item ID: **Required Date: 26/04/2012** Req'd Qty: 1.00 **Customer:** Reference: Run Process Plan: MLJ 13Tooling: Date: 17/04 Approvals: Date: QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool # Plan Tool ID Accept Reject Reject Insp. Work Center ID Description **Run Hours** Code Otv Qty Number Stamp **Draw Nbr Revision Nbr** D212-664-141 Rev D (DEO) 100 0.00 (10/80/SI TIM DOCUMENT CONTROL *100* DC 0.00 Memo Document Control Photocopy bluefile and create labels as per PPP D212-664-101 CHG005 110 Pick Kit 0.00 Packaging *110* Packaging 0.00 Memo Packaging 120 0.00 **BENDING MACHINE - CROSSTUBES** *120* CNC Bend 2 0.00 Memo

83084 Bend tube as per Dwg D212-664-141 using CNC bender program 212-fav-

17-7-23

CNC Alpha 160 Bender

Folio D212-664-101

Dart Aerospace

W/O:		WORK ORDER	WORK ORDER CHANGES								
DATE	STEP	PROCEDURE CHANGE	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector					
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Part No		PAR #: Fault Category:	NC	R: Yes	No DQ	A:	_ Date: _				

Resolution: _____ Disposition: ____ QA: N/C Closed: ____ Date: ___

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· April-12-12 4:11:19 PM Item ID: D212-664-101 **Revision ID:** Item Name: Crosstube Fwd **Start Date:** 12/04/2012

Required Date: 26/04/2012

Accept

N900040100

Setup Start

Start Oty: 1.00 Req'd Qty: 1.00

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

QC:

Date:

Tooling:

Date:

Run

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/ **Work Center ID** Operation Description Set Up/ **Run Hours** Tool ID

Tool # Plan

Qty-Code

Accept Reject **Qty**

Reject Number

Insp. Stamp

120

130

Memo

QC15- Crosstube Dimensional Check

OC

Quality Control

140 Crosstubes

Crosstubes

140

Crosstubes

Memo

0.00

0.00

1-Drill pilot holes in tube as per Dwg D212-664-141 using drill Jig DT8548 & DT8549, using drill table DT8577, set-up towers in hole #7 as per QSI 10

2-Ream hole to finish size in tube as per Dwg D212-664-141using drill Jig DT8548 & DT8549. Check dimensions between holes, both sides on both cuffs, to ensure alignment with saddle holes.

3-Scribe part # and batch # using vibrating stylus as per Dwg D212-664-141

4-Deburr & Inspect for surface damage. Repair damage within limits as per Dwg D212-664-141

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160 QC

Quality Control

·QC5- Inspect part completeness to step on W/O

wear gloves kith

170

170 Outsource2

Outsource process - NDT

Outsource process - NDT per QSI038 4.1

0.00

0.00

Liquid Penetrant Inspection as per QSI 038 Issue P/O: LPI as per ASTM 1417 Level 2

Attach copy of NDT results to work order

W/O:		WORK ORDER CHANGES											
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Work Order ID 83084 pril-12-12 4:11:19 PM			*830	Page 4							
Item ID: Revision ID: Item Name: Start Date: Required Date: Reference:			*1* *1*	Accept	*N900040 Cust Item ID: Customer:	າ1ດເ)*	Setup	Start Stop	*NS1 *NS2	*
Approvals:	Process Plan	n:		Tooling: SPC (Y/N):	Date:			Run	Start Stop	*NR1 *NR2	
Sequence ID/ Work Center II 180 *120* Packaging Packaging		Operation Description Receive & Inspect for Da Packaging Memo Ensure copy	amage & Mat'l Certs of NDT results attached	Set Up/ Run Hours 0.00 0.00 to work order.	Tool ID Tool #	Plan Code	Accept Qty	Reje Qty		Reject Insp. Nymber Stam	`` (U)
*190 *190 QC Quality Control	N		·	0.00 0.00 are as per Dwg D212-664-14	1				<u>.</u>	M	12:67:2
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* wear obses *

AR 12-7-28

1- Pressure wash and use wash'n wipe to clean tube

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W/O:			WORK ORDER CHANGES									
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Memo

Then, Wrap in plastic bag to protect from scratches

QC

Quality Control

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Item ID: Revision ID: Item Name:	D212-664-10			Accept	*N900	040	100)*	Setup Star Stop	171.	S1*	
Start Date: Required Date: Reference:	12/04/2012 26/04/2012	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item Customer:					14.	17	
Approvals:	Process Pla	n:	Date:	Tooling: SPC (Y/N):		ate:	- 	į	Run Star Stop	, "INF	₹1* ₹2*	
Sequence ID/ Work Center II 220 *720* Crosstubes Crosstubes)	clean the area 2-install supp A/R Pros	a with 4105S wash 'n' ports with Proseal 890	per DSI9563 and QSI 015	Tool ID	Tool#	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp	٦٠31
* ?30 * ?3^* QC Quality Control		QC6- Inspect dimensions Memo	to drawing	0.00 (AS)	10801	4						
40 *740* Packaging ackaging		Pick Kit Memo		0.00						M	k/, «	ΑĴ

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Quality Control

MC512/08/01

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Picklist Print													Page 1
*Work Order ID: 83	3084		 *!	83084	1*		<u> </u>						
Parent Item: Di	212-664-101				- -664-10	ገ1*							/
Parent Item Name:	Crosstube Fwd			1 1 / 1 /	-()()4- (<i>,</i> 1			Start Date: 12/0		•	d Date: 26	
Comments:	IPP Rev:E04.02.16 IPP Rev:F 06-03- IPP Rev:G 07-04- 11.04.26 inspection	29 Remove Co -30 As per Rev	C		JLM IPP I	Rev:H							
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D212-664-101TRN		Manufactured	No			110	Each	7.0000	1				
D212-66 Crosstube Turning Detail	34-101TF	SN							**		Y	12-	7-23
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D3595-063-450 *\(\begin{array}{c} 3595-0 \\ \text{RUBBER CUSHION} \end{array}\)	063-450*	Manufactured	No			230	Each	83.8095	4 **	4.210520	s M	120	7 3/
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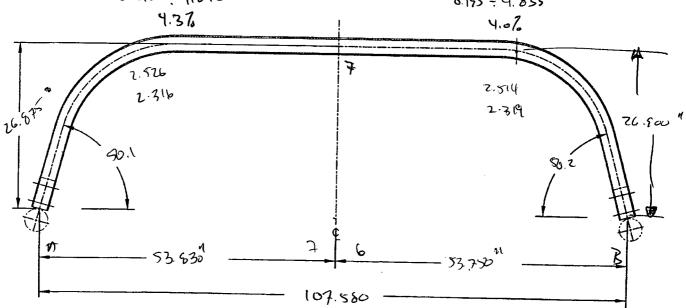
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DART AEROSPACE LTD	Work Order:	83084
Description: Crosstube High Fwd (205/212/412)	Part Number:	D212-664-101
Inspection Dwg: D212-664-141 Rev: D		Page 1 of 1

Required Dimension	Min	Max
Height	26.79	27.05
1/2 Span	53.59	53.85
Angle	49	52
Total Span	107.18	107.7



Comments							
Sine A = 4.3%	crushing	Q 7 0488C'					
M, bple = 2	Passes						
Sine B= 4.0%	An crushy	(w) 7 Pastes.					

QC15 Inspection	DACI	
Date	16	17/09/24
	9-83	- + · - / · -

Rev	Date	Change	Revised by	Annuared
Α	07.02.06	New Issue		Approved
В	07.05.31	Dimensions updated per Dwg Rev C	KJ/JM	
С	10.04.01	Dwg Rev updated	KJ/JM	1
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Item	Qty -141	Qty -141B	Part Number	Description
1	Х		D212-664-141	CROSSTUBE ASSEMBLY (205/212/412 HIGH FWD)
2		Х	D212-664-141B	CROSSTUBE ASSEMBLY (214 HIGH FWD)
3	1	1	D6005-128	CROSSTUBE
4	2	2	D2893-1	SUPPORT
5	4	4	D3595-063-450	RUBBER CUSHION .
6	4	4	MS21920-25	CLAMP (OR MS21920-26)
7	A/R	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)

GENERAL NOTES:

8

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- 1) MATERIAL: MANUFACTURED FROM D6005-128 FINISHED LENGTH = 126.514±0.020
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2
 PAINT OUTSIDE PER DART QSI 005 4.2
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED.
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX.
- 6) IDENTIFICATION: SCRIBE DART PART NUMBER "D212-664-XXX" AND BATCH NUMBER ON INSIDE OF CUFF USING VIBRATING STYLUS
- 7) WEIGHT: D212-664-141 = 33.6 lbs (PER IIN-D212-664) D212-664-141B = 33.6 lbs (PER IIN-D212-664)
- 8) PART IS SYMMETRIC ABOUT CENTERLINE.
- 9) RUN CUTTER OFF PART, BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD BE SMOOTH.
- 10) BEND PROGRESSIVELY WITH A MINIMUM OF 3 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.
- 11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.
- 12) INSTALL D2893-1 SUPPORT USING 0.03° TO 0.06° THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2893-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 13) INSTALL MS21920-25 CLAMPS (OR -26) WITH D3595-063-450 RUBBER CUSHIONS TO SECURE THE D2893-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE OF CROSSTUBE
- 14) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 83084 MCJ

REMOVED FRAM WIDER REVIEW PER UNDER REVIEW 60N # 11-614

DEO ATTACHED

RELEASED 2009 -10-29

COPYRIGHT @ 2000 BY DART AFROSPACE LTD

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D	REORG TO CUI REMOV & B6-3)	SANIZED VIEW RRENT STANE /ED REF & AD ; RELOCATED) TURNING DE	GENERAL NOTES/PART LIST; VS AND REFORMATTED DRAWING NARDS; ADD -1418 (ZN 84-2, D4-2); D TOLERANCES (ZN 84-3, C6-3, C8-3) D FLAG #6 PER PAR 08-046 (ZN AS-3); TAIL & UPDATED TOLERANCE TO	RF	09.09.30		
С			ASION STRIP; ADD MAGNOBOND VERSE CLAMPS	PH	07.03.08		
В.	ADD H SKIDT	OLES FOR C	PH	05.02.04			
Α	NEW I	SSUE	PH	00.12.12			
REV.			DESCRIPTION	BY .	DATE		
DESIGN		PH	DART AEROSPA	\CF	ITD		
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MFG. AF			D212-664-141	SHEET 1 OF			
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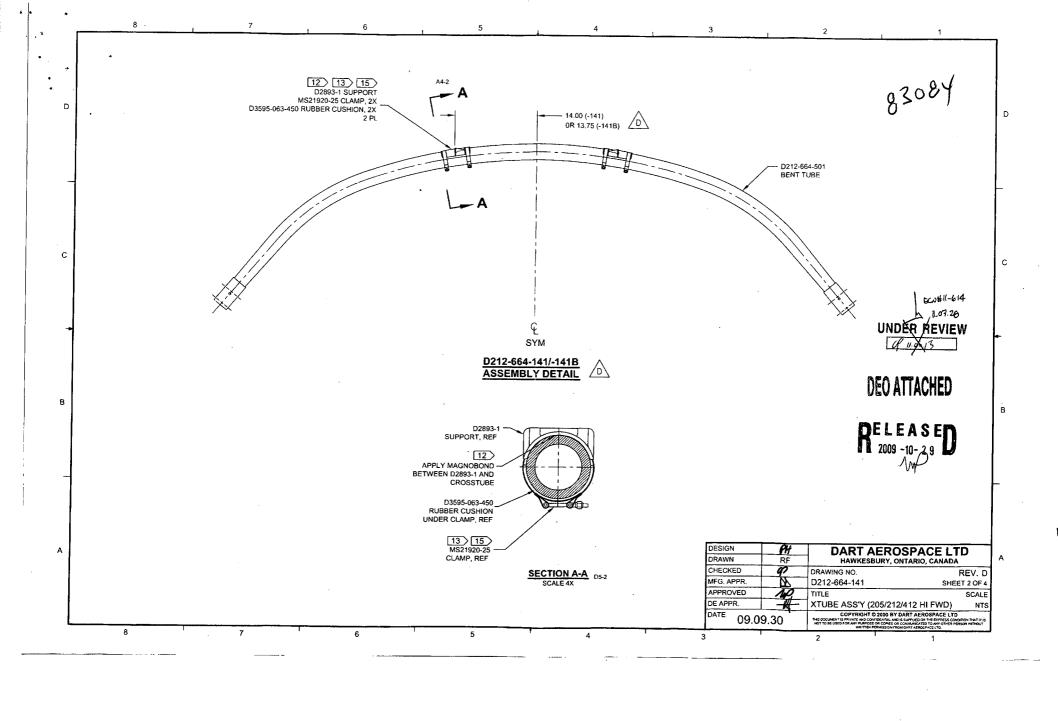
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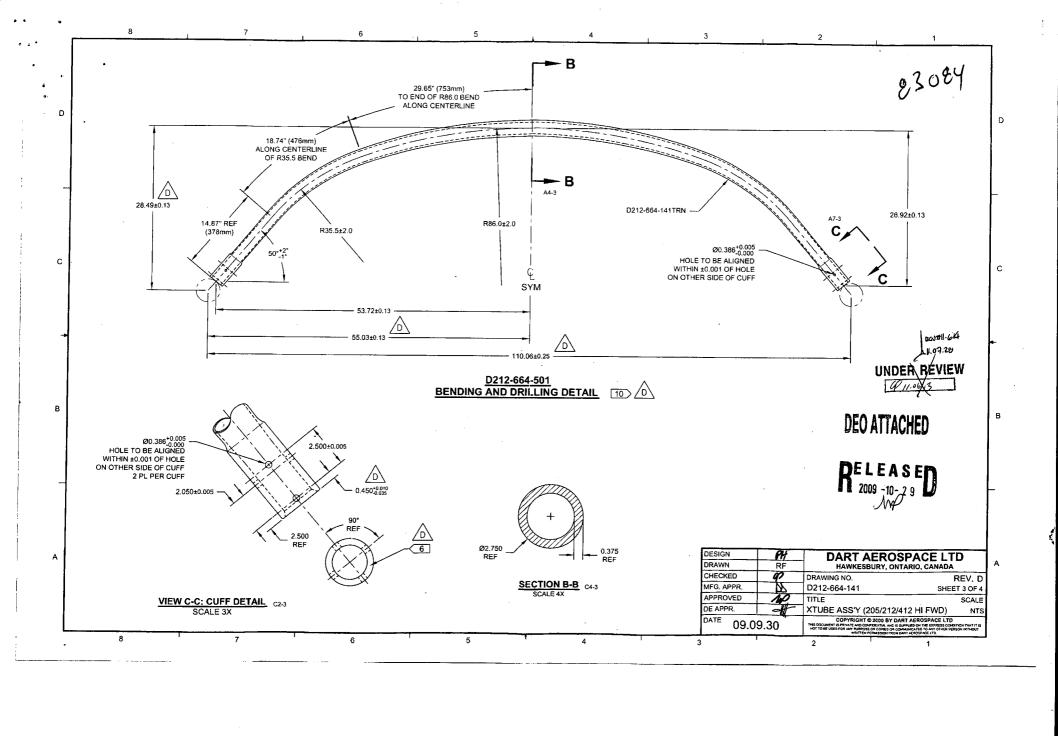
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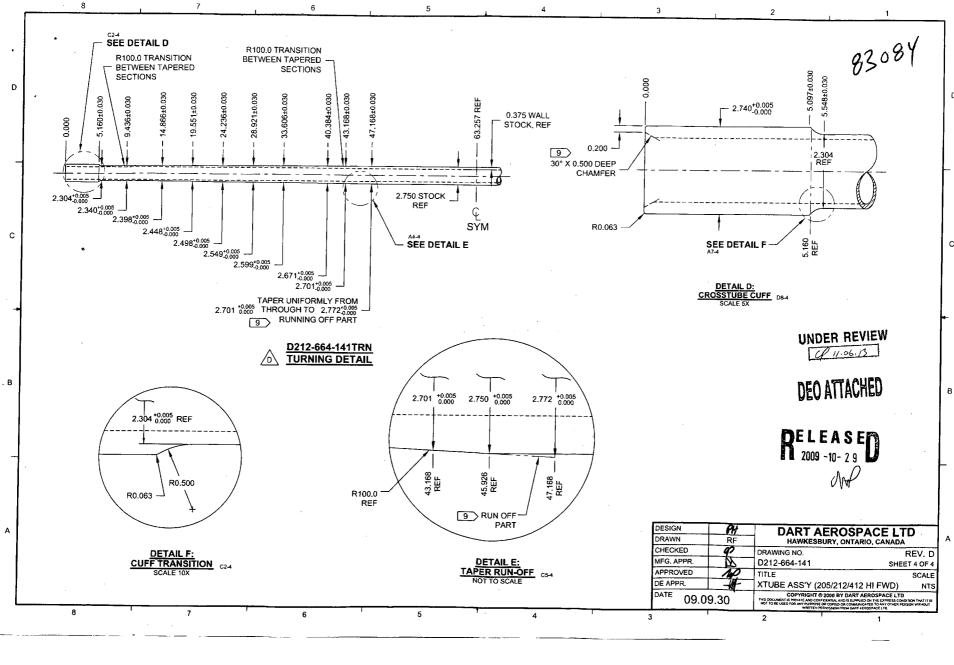


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W/O:		WORK ORDER CHANGES											
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DATE	STEP	Description of NC	I 141 1	Corrective Action Section		Verification	Approval	Approval					
		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector					



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DRAWING NO.	TITLE		REV. D	DART AEROSPACE LTI	D.E.O. NO	O.	SHEET NO.	SCALE
D212-664-141	XTUBE ASS	SY (205/212/412	HI FWD)	ENGINEERING ORDER	. 1	64-141 <u>-</u> D-1	SHEET 1 OF 2	NTS
DRAWN	Ţ	CHECKED	P	MFG. APPR.	APPROVED	MP.	DE APPR.	
DATE 11.0	4.07	DATE	11, 67, 11	DATE ((.o\(.(Z	DATE	11/04/12	DATE 11.04.12	

PURPOSE:

ADD AN INSPECTION WINDOW TO UNDERSIDE OF CROSSTUBE.

CHANGE:

NOTES 2 OF SHEET 1 IS AMENDED AS FOLLOWS:

<u> 18:</u>

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

MASK UNDERSIDE OF CROSSTUBE AS SHOWN (HATCHED AREA) AND

PAINT OUTSIDE PER DART QSI 005 4.2 REMOVE MASKING AND APPLY CLEAR COAT

WAS:

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

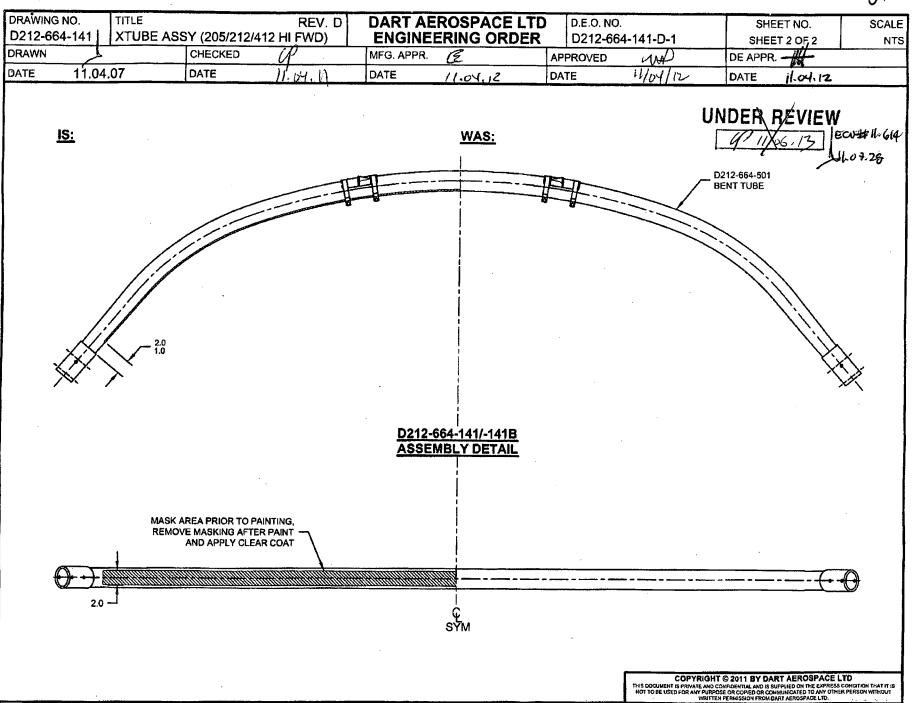
PAINT OUTSIDE PER DART QSI 005 4.2

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W/O:			WORK ORDER CHANGES								
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DATE	0750	Description of NC			ion B	Verific	ation	Approval	Approval		
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date	& Section		Chief Eng	QC Inspector		
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NCR:			WORK ORD	ER NON-CONFORMA	NCE (NCR)					
DATE	STEP	Description of NC	Corrective Action Section B			Verific	ation		Approval		
	U.L.	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section	on C	Chief Eng	QC Inspector		
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DRAWING NO.	TITLE REV. D	DART AEROSPACE LTD	D.E.O. NO.	SHEET NO.	SCALE
	CROSSTUBE ASS'Y (205 HI FWD)	ENGINEERING ORDER	D212-664-141-D-2	SHEET 1 OF 1	NTS
DRÁWN ()	CHECKED A>S	MFG. APPR.	APPROVED MA	DE APPR.	
DATE 11.07	15 DATE 11.07.20	DATE 11.07.21	DATE 11/07/21	DATE 11.07.21	*****
			7 + 1)		

PURPOSE:

REPLACE MAGNOBOND WITH PROSEAL.

CHANGE:

IS:

Item	Qty -141	Qty -141B	Part Number	Description
7	A/R	A/R	PROSEAL 890 B-2	SEALANT, AMS-S-8802 CLASS B-2

WAS:

7	A/R	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023
]	İ			ADHESIVE (TEXTRON/BELL SPEC. 299-947-100,
	L		-	TYPE II, CLASS 2 ADHESIVE)

NOTE 12 & 15, SHEET 1 IS AMENDED AS FOLLOWS:

IS:

- 12) TO INSTALL D2893-1 SUPPORT: ABRADE MATING SURFACE OF SUPPORT AND CROSSTUBE WITH 180-GRIT SANDPAPER AND REMOVE RESIDUE WITH MEK (OR EQUIVALENT). APPLY A 0.04" TO 0.07" THICK LAYER OF PROSEAL 890 CLASS B-2 (OR AMS-S-8802 CLASS B-2) SEALANT TO MATING SURFACE OF SUPPORT.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. PRIOR TO PACKAGING, RE-CHECK TORQUE ON CLAMPS AFTER PROSEAL 890 SEALANT HAS CURED FOR 72 HOURS.

WAS:

- 12) INSTALL D2893-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2893-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

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	R	esolution	Disposition:	QA: N/C CI	osed:	Date:	
NCR:		- W(ORK ORDER NON-CONFOR	MANCE (NCR	:) :		
DATE	STEP	Description of NC Section A	Corrective Action		Verification Section C	Approval Chief Eng	Approval QC Inspector
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REFERENCE ONLY

IIN-D2121664

Page 22 of 25

5.0 PARTS LIST

HIGH GEAR CROSSTUBES

Item	-101	-201	-203	Part Number	Description
	х			D212-664-101	CROSSTUBE INSTALLATION, 204/205/210/212/214/412, UH-1H, UH-1A/B/E/F/L/P, TH-1F/L, HH-1K HIGH FWD
		х		D212-664-201	CROSSTUBE INSTALLATION, 204/205/210/212/214, UH-1H, UH-1A/B/E/F/L/P, TH-1F/L, HH-1K HIGH AFT
			х	D412-664-203	CROSSTUBE INSTALLATION, 412 HIGH AFT
1	1			D212-664-141	CROSSTUBE ASSEMBLY, 204/205/210/212/214/412, UH-1H, UH-1A/B/E/F/L/P, TH-1F/L, HH-1K HIGH FWD
2		1		D212-664-241	CROSSTUBE ASSEMBLY, 204/205/210/212/214, UH-1H, UH-1A/B/E/F/L/P, TH-1F/L, HH-1K HIGH AFT
3			1	D412-664-243	CROSSTUBE ASSEMBLY, 412 HIGH AFT
				+ 00000 4	CUDDODT
10	2			* D2893-1	SUPPORT RUBBER CUSHION
11	4	<u> </u>		* D3595-063-450 * MS21920-25	CLAMP (OR MS21042-26)
12	4				BOLT
13 {	4			AN6-35A AN6-36A-4	BOLT
14 4				MS21042L6	NUT (OR MS21042-6)
15 _~	6			-AN960JD616	WASHER
164	18			ANSOUTO 10	WASHER
		2		* D2940-1	SUPPORT
20		4		* D3595-063-530	RUBBER CUSHION
21		4		* MS21920-28	CLAMP (OR MS21042-30)
23		4		AN6-40A	BOLT
24		2		AN6-41A	BOLT
25		6	· · · · · · · · · · · · · · · · · · ·	MS21042L6	NUT (OR MS21042-6)
26		18		AN960JD616	WASHER
		10		Partocooporo	TVV COLLECTION OF THE PROPERTY
30		,	1	* D2896-1	SUPPORT
32			2	* D3595-063-570	RUBBER CUSHION
33			4	* MS21920-28	CLAMP
34		-	2	* MS21920-30	CLAMP (OR MS21042-32)
35			4	AN6-40A	BOLT
36			2	AN6-41A	BOLT
37			6	MS21042L6	NUT (OR MS21042-6)
38			18	AN960JD616	WASHER
39			2	* D3189-1	CHAFING SHIELD
50	$\int 1$	1		D3428=1	PLACARD

^{*}REFERENCE ONLY. PARTS ARE INCLUDED IN D212-664-141/-241 OR D412-664-243 ASSEMBLIES ABOVE NOTE: KITS INCLUDE EXTRA HARDWARE FOR COMPATIBILITY WITH BOTH DART AND BELL/AAI SKIDTUBES.

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Revision: G

Date: 11.08.30

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, · 		·	ACCEPTANCE STD ASTM 14	117/051-038 REV.	DATE 2005
PROJECT	FPI	ON CRO	SS TUBES		
ITEM(S) EXAMINED		10 /	25	•	
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JOB DESCRIPTION	PROCEDURE I	No. LT	2008 TECHNIQUE	No. LT EH2 REV.	/DATE 2008
PART NO	SEE PESU		MATERIAL ALUNING	THICKNES:	· Various
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TEST DETAILS	100	<u> </u>	-102 0/02/		
METHOD	FLUORESCENT	☐ VISIBLE	WATER WASH	☐ SOLVENT REMOVABLE	Post Emulsified
	46NAFLUX	- VIOIDEE	BLACK LIGHT S/N /CH 59		
PENETRANT Z	467 MINIMUM DW	ELL TIME 4510 MIN.	LIGHTING EQUIP. FLASHLIGI		
PENETRANT REMOVER.	MINIMUM DR			0066	. Due Date The Total
DEVELOPER TYPE	S2 MINIMUM DW NON AQUEOUS ☐ AQU		LIGHT METER S/N /096	<i>8866</i> Cal	FOID.
TEST SURFACE	110111111111111111111111111111111111111				
	As GROUND	☐ As Welded			CLEAN BARE METAL
SURFACE TEMPERATURE	< - 4°C/ 20°F	☐ - 4°C/ 20°F TO 10°C/50)°F □ 10°C/	/50°F to 52°C/125°F	□ > 52°C/125°F
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